

BETWEEN PATIENTS:

1. Remove ultrasonic insert used. Clean and sterilize the ultrasonic insert(s) following the procedures outlined in the Cavitron Ultrasonic Insert Infection Control Direction for Use enclosed with every insert.
2. Hold the handpiece over a sink or drain and activate Purge function as described in Step 6 of Start-Up Procedures.
3. After the purge cycle is complete, turn the system OFF, (O) position.
4. Remove the Steri-Mate handpiece. Clean and sterilize the handpiece following the procedure outlined in the booklet enclosed with your unit.
5. Disinfect the surfaces of the cabinet, Power Cord, Handpiece Cable, Water Supply Line, Foot Control and Auxillary Cable (if applicable) by applying an approved non-immersion type disinfectant solution* carefully following the instructions provided by the disinfectant solution manufacturer. To clean System, generously spray disinfectant solution on a clean towel and wipe all surfaces. Discard used towel. Dry with a clean cloth. To disinfect system, generously spray disinfectant on a clean towel and wipe all surfaces. Allow disinfectant solution to air dry. Never spray disinfectant solution directly on the system.
6. Inspect the handpiece cable for any breaks or tears.
7. If using a closed water supply or DualSelect Dispensing system, check for adequate fluid volume for the next patient.
8. When ready for use, place a sterilized Steri-Mate handpiece on the handpiece cable and a sterilized insert into the handpiece and adjust system controls to preferred operator positions.

SHUT-DOWN PROCEDURES AT THE END OF THE DAY:

Follow the “Between Patients” maintenance procedures, Steps 1 through 6. In addition, it is recommended to close the manual shut-off valve on the dental water supply system.

***NOTE: Water-based disinfection solutions are preferred. Some alcohol-based disinfectant solutions may be harmful and may discolor plastic materials.**

9.2 Weekly Maintenance

It is strongly recommended that this system be disinfected by chemically flushing the waterlines with a 1:10 Sodium Hypochlorite solution (NaOCl) at the end of each week. This can be accomplished by connecting this device to the Cavitron DualSelect Dispensing System or a number of other devices available from your local distributors. Where this device is connected to the Cavitron DualSelect Dispensing System, please follow the DualSelect system’s Directions for

Use manual. If connected to another device, please follow those directions for use, keeping in mind that a chemical flush should be performed at maximum water flow for at least 30 seconds. The system should be left undisturbed for 10 minutes but no more than 30 minutes to allow the sodium hypochlorite solution to soak in the lines. As a suggestion, it is recommended that a sign be placed on the system stating that the SYSTEM IS BEING DISINFECTED WITH A STRONG DISINFECTANT AND SHOULD NOT BE USED. When ready, flush system with clean water for at least 30 seconds or until sodium hypochlorite odor disappears. ALL CHEMICALS MUST BE FLUSHED FROM THE SYSTEM BEFORE IT IS READY FOR PATIENT USE.

9.3 Water Line Filter Maintenance

When the water line filter becomes discolored, the filter should be replaced to prevent reduced water flow to the Cavitron Plus Ultrasonic Scaler. A 10-pack of replacement filters is available by ordering Part Number 90158 from your local authorized DENTSPLY Distributor.

1. Verify system is turned OFF.
2. Disconnect the water supply hose from the water source. If a quick-disconnect connector is attached to the end of the hose, relieve the water pressure by pressing the tip of the connector in an appropriate container to drain the water.
3. Grasp the fitting on either side of the filter disk and twist counterclockwise. Remove the filter section from either side of the water hose.
4. Install the replacement filter onto the water hose fittings. The filter should be positioned to match up with the correct hose fitting.
5. Hand tighten the two hose fittings in a clockwise direction. Reconnect the water supply hose, operate the unit to bleed the air and test for leaks.

SECTION 10: Troubleshooting

Although service and repair of the Cavitron Plus Ultrasonic Scaler should be performed by DENTSPLY personnel, the following are some basic trouble shooting procedures that will help avoid unnecessary service calls. Generally, check all lines and connections to and from the System, a loose plug or connection will often create problems. Check the settings on the System’s controls.

10.1 Troubleshooting Guide

Symptom:

System will not operate: No Power ON indicator

1. Check that the Main Power Switch is in the ON (I) position, and that the detachable Power Cord is fully seated in the receptacle on back of System.

2. Check that the system's power cord plug is fully seated in an approved AC wall outlet.
3. Check that the wall outlet is functional.

Symptom:

System will not operate: Power ON Indicator is illuminated

1. If the office has more than one foot control, test each to ensure that the proper foot control is being used. With a handpiece and insert installed, depress the foot control to the first position. The system should dispense water. If none of the foot controls operate the system, continue to the next step.
2. Resynchronize one foot control to the system (see Section 6.8 Foot Control Synchronization).

Symptom:

System operates: No water flow to insert tip

1. Assure that handpiece lavage control is properly adjusted.
2. Check for clogged insert.
3. Check that dental office water supply valves are open.
4. If the system is connected to DualSelect Dispensing System, check that fluid level in the selected bottle is sufficient. Make sure valves are open when using external water source.
5. Check that the water line filter is clean. Replace filter if needed.

Symptom:

System operates: No insert cavitation

1. Check that the Power Level Control is not in Rinse Mode.
2. Check the insert for damage and that it is properly installed in the handpiece.
3. Check that the handpiece is properly installed to the cable assembly.
4. If Steri-Mate grip is used on the handpiece, verify that the grip is flush with the hard plastic of the insert port.
5. Turn the system's Main Power Switch to the OFF (O) position. Wait 5 seconds and turn the system back ON.
6. If problem still exists, replace both "AA" batteries in foot control with new "AA" batteries (Refer to Section 6.7) or connect auxiliary foot control cable.

Symptom:

System operates: Purge Mode will not function – icon flashing

1. Check that there is no insert in the handpiece.
2. Check that handpiece is properly installed to the cable assembly.

Symptom:

System operates: Service Indicator blinking

- **Slow Blinking (1 blink per second)**

The system is not operating within factory specifications.

1. Remove insert.
2. Turn Main Power Switch OFF, (O) position. Wait five seconds. Turn unit ON, (I) position.
3. Operate Purge function.
4. If service indicator still blinks, refer to Section 10.2 Technical Support and Repairs to have unit serviced as soon as possible.

- **Fast Blinking (3 blinks per second)**

– Indicates improper set-up

1. If insert is in the handpiece, remove. Verify the handpiece is properly seated and depress the foot control for 2 seconds. If blinking stops, the system is ready for use. If blinking remains, continue to the next step.
2. Attach a NEW handpiece and depress foot control for 2 seconds. If blinking stops, the system is ready for use. Discard the old handpiece or return if within warranty. If blinking remains, continue to the next step.
3. Install and fully seat an insert into handpiece. Depress foot control for 2 seconds. If blinking stops, unit is ready for use. If blinking remains, continue to the next step.
4. Install and fully seat a NEW insert in handpiece and depress foot control for 2 seconds. If blinking stops, system is ready for use. Discard old insert or return if within warranty. If blinking remains, refer to Section 10.2 Technical Support and Repairs to have unit serviced as soon as possible.

Symptom:

System operates: Service Indicator illuminated

1. Ensure that the base unit has adequate ventilation and is not near a heat source (i.e. radiator, heat lamp, sunlight or other heat producing operatory equipment).
2. Turn Main Power Switch to the OFF (O) position. Allow system to cool for 10 minutes and turn system ON, (I) position. Verify light is not illuminated.
3. If light is still illuminated, refer to Section 10.2 Technical Support and Repairs to have unit serviced as soon as possible.

10.2 Technical Support and Repairs

For technical support and repair assistance call DENTSPLY Professional Cavitron CareSM Factory Certified Service at 1-800-989-8826 Monday through Friday, 8:00 A.M. to 5:00 P.M. (Eastern Time). For areas outside the U.S., contact your local DENTSPLY Professional representative.